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## SEQUENCE LISTING

## (1) GENERAL INFORMATION:

- (i) APPLICANT: LARRY GOLD; NEBOJSA JANJIC; STEVEN RINGQUIST;  
NIKOS PAGRATIS; PENELOPE J. TOOTHMAN
- (ii) TITLE OF THE INVENTION: HIGH AFFINITY OLIGONUCLEOTIDE  
LIGANDS TO TRANSFORMING GROWTH  
FACTOR 3 (TGFB), PLATELET-DERIVED  
GROWTH FACTOR (PDGF) AND HUMAN  
KEROTINOCYTE GROWTH FACTOR (hKGF)

(iii) NUMBER OF SEQUENCES: 304

## (iv) CORRESPONDENCE ADDRESS:

- (A) ADDRESSEE: Swanson & Bratschun, L.L.C.
- (B) STREET: 8400 E. Prentice Avenue, Suite 200
- (C) CITY: Englewood
- (D) STATE: Colorado
- (E) COUNTRY: USA
- (F) ZIP: 80111

## (v) COMPUTER READABLE FORM:

- (A) MEDIUM TYPE: Diskette, 3.5 inch, 1.44 Mb storage
- (B) COMPUTER: IBM compatible
- (C) OPERATING SYSTEM: MS-DOS
- (D) SOFTWARE: WordPerfect 6.1

## (vi) CURRENT APPLICATION DATA:

- (A) APPLICATION NUMBER: US96/
- (B) FILING DATE:
- (C) CLASSIFICATION:

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,423
- (B) FILING DATE: 02-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/458,424
- (B) FILING DATE: 02-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,594
- (B) FILING DATE: 05-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/465,591
- (B) FILING DATE: 05-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,725
- (B) FILING DATE: 07-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/479,783
- (B) FILING DATE: 07-JUNE-1995

## (vii) PRIOR APPLICATION DATA:

- (A) APPLICATION NUMBER: 08/618,693
- (B) FILING DATE: 20-MARCH-1996

## (viii) ATTORNEY/AGENT INFORMATION:

- (A) NAME: Barry J. Swanson
- (B) REGISTRATION NUMBER: 33,215
- (C) REFERENCE/DOCKET NUMBER:

## (ix) TELECOMMUNICATION INFORMATION:

- (A) TELEPHONE: (303) 793-3333

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(B, TELEFAX (303) 793-3433

## (2) INFORMATION FOR SEQUENCE ID NO: 1:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:

GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNAAGCUUCG CUCUAGAUUC	100
CCCUUAGUG AGGGUUA	117

## (2) INFORMATION FOR SEQUENCE ID NO: 2:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 93 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:

GGGGGAGAAC GCGGAUCCNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNA GCUUCGCUCU AGAUCUCCU UUAGUGAGGG UUA	93

## (2) INFORMATION FOR SEQUENCE ID NO: 3:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 123 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG	50
CCCCUCCAUG GAGGAGGGGG GAGGGGGUGG UUCGGAGAAA GCUUCGCUCU	100
GAAUCUCCCU UUAGUGAGGG UUA	123

## (2) INFORMATION FOR SEQUENCE ID NO: 4:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

GGGAGAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	50
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN AAGCTTCGCT CTAGA	95

## (2) INFORMATION FOR SEQUENCE ID NO: 5:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
 GGGGAAACGC GGATCCNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNAAGC TTCGCTCTAG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 6:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 95 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
 GGGGAGAGAAC GCGGATCCTG TCTCCACCGC CGATACTGGG GTTCCTGGGG 50  
 CCCCTCCATG GAGGAGGGGG TGGTTCGGAG AAAGCTTCGC TCTAG 95

(2) INFORMATION FOR SEQUENCE ID NO: 7:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
 TAATACGACT CACTATAGGG GGAGTCTGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 8:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
 TAATACGACT CACTATAGGG GGAGAACGCG GATCC 35

(2) INFORMATION FOR SEQUENCE ID NO: 9:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 35 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
 TAACCCTCAC TAAAGGGAGA TCTAGACGA AGCTT 35

(2) INFORMATION FOR SEQUENCE ID NO: 10:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 50 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:

CATTTAGGTG ACACTATAGA ATATGCATCA CTASTAAGCT TTGCTOTAGA

50

(2) INFORMATION FOR SEQUENCE ID NO: 11:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 33 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:

GGATCCCGGA GCTCCCTATA GTGAGTCGTA TTA

33

(2) INFORMATION FOR SEQUENCE ID NO: 12:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA  
CAGGAGGGAG GGGUGGAUGU GCGGUCUACU CGGUGUCGUG AAGCUUCGCU  
CUAGAUCUCC CUUAGUGAG GGUUA

50

100

125

(2) INFORMATION FOR SEQUENCE ID NO: 13:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA  
CAGGAGGGAG GGGUGGAUGU GCGGUCUACU CGGUGUCGUG AAGCUUCGCU  
CUAGAUCUCC CUUAGUGAG GGUUA

50

100

125

(2) INFORMATION FOR SEQUENCE ID NO: 14:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 125 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:

GGGGGAGAAC GCGGAUCCGA GCAACCCAG GCGCAUAGCU UCCGAGUAGA

50

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CAGGCGGGAG GGGUGGAUGU GGGGUCUACU CGGAGUCGUG AAGCUUCGCU 106  
CUAGAUCUCU CUUUAGUGAG GGUUA 125

## (2) INFORMATION FOR SEQUENCE ID NO: 15:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:

GGGGGAGAAC GCGGAUCCGG CAACCCAGG CGCAUAGCUU CCGAGUAGAC 50  
AGGCGGGAGG GGUGGAUGUG GCGUCACGAG GAAGCUUCGC UCUAGAUCUC 100  
CCUUAGUGA GGGUUA 116

## (2) INFORMATION FOR SEQUENCE ID NO: 16:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 123 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:

GGGGGAGAAC GCGGATCCGC AAUCCAGGC GCAUAGCUUC CGAGUAGACA 50  
GGAGGGAGGG GUGGAUGUGG CGUCUACUCG GCGUCGUGAA GCUUCGCUCU 100  
AGAUCUCCCU UUAGUGAGGG UUA 123

## (2) INFORMATION FOR SEQUENCE ID NO: 17:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 117 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:

GGGGGAGAAC GCGGAUCCGA GCAUCCAG GCGCAUAGCU UCCGAGUAGA 50  
CAGGAGGGAG GGGUGGAUGU GGGUCUCGA GGAAGCUUCG CUCUAGAUCU 100  
CCUUUAGUG AGGGUUA 117

## (2) INFORMATION FOR SEQUENCE ID NO: 18:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 123 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

110

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 18:

G G G G G A G A A C	G C G G A U C C G A	G C A A G C C C U G	G C A U A G C U U C	C G A G U A G A C A	50
G G A G G G A G G G	G U G G A U G U G G	C G U C U A C U C G	G U G U C G U G A A	G C U U C G C U C U	100
A G A U C U C C C U	U U A G U G A G G G	U U A			123

(2) INFORMATION FOR SEQUENCE ID NO: 19:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 115 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 19:

G G G G G A G A A C	G C G G A U C C G G	C A A U C C C A G G	C G C A U A G C U U	C C G A G U A G A C	50
A G G A G G G A G G	G G U G G A U G U G	G U G U A C G A G G	A A G C U U C G C U	C U A G A U C U C C	100
C U U U A G U G A G	G G U U A				115

(2) INFORMATION FOR SEQUENCE ID NO: 20:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 20:

G G G G G A G A A C	G C G G A U C C G A	G C A A U C C C A G	G C G C A U A G C U	U C C G A G U A G A	50
C A G G A G G G A G	G G G U G G A U G U	G G U G U C U C G A	G A A G C U U C G C	U C U A G A U C U C	100
C C U U U A G U G A	G G G U U A				116

(2) INFORMATION FOR SEQUENCE ID NO: 21:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 98 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 21:

G G G G G A G A A C	G C G G A U C C A A	G C U U C G A G U A	G A C A G G A G G G	A G G G G U G G A U	50
G U G G A G U C U C	G A G A A G C U U C	G C U C U A G A U C	U C C C U U U A G U	G A G G G U U A	98

(2) INFORMATION FOR SEQUENCE ID NO: 22:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 113 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

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(1) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 22:

GGGGGAGAAC GCGGAUCCGA GCAAUCCUAA GCAUAGCUUC GAGUAGACAG	50
GAGGGAGGGG UGGAUGUGGC GUCUCGAGAA GCUUCGCUCU AGAUCUCCCU	100
UUAGUGAGGG UUA	113

(2) INFORMATION FOR SEQUENCE ID NO: 23:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH<sub>2</sub> cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 23:

GGGGGAGAAC GCGGAUCCGA GCAAUCCCGG GCGCAUAGCU UCCGAGGAGA	50
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 24:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 116 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-F uracil

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'NH<sub>2</sub> cytosine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 24:

GGGGGAGAAC GCGGAUCCGA GCAAUCCAG GCGCAUAGCU UCCGAGUAGA	50
CAGGCGGGAG GGGUGGAUGU GGCGUCUCGA GAAGCUUCGC UCUAGAUCUC	100
CCUUUAGUGA GGGUUA	116

(2) INFORMATION FOR SEQUENCE ID NO: 25:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 42 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 25:

GCUUCCGAGU AGACAGGAGG GAGGGUGGA UGUGCGUCU AC	42
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112

## (2) INFORMATION FOR SEQUENCE ID NO: 26:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 26:

CUUCCGAGUA GACAGGAGGG AGGGGUGGAU GUGGCGUCUA CUC

43

## (2) INFORMATION FOR SEQUENCE ID NO: 27:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 78 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 27:

GGGGGAGAAC GCGGAUCCGG CAACCCGAGG CGCAUAGCUU CCGAGUAGAC

50

AGGCGGGAGG GGUGGAUGUG GCGUCACG

78

## (2) INFORMATION FOR SEQUENCE ID NO: 28:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'NH<sub>2</sub>) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 28:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUCAAC GGGGUGAGGU

50

GCAGCAGAAA GGGCCGGCAC CACAUGACGU AAAAGCUUCG CUCUAGAUCU

100

CCCUUAGUG AGGGUUA

117

## (2) INFORMATION FOR SEQUENCE ID NO: 29:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 108 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 29:

GGGGGAGAAC GCGGAUCCUG AGAAGGACGU CGGGGUGAGG UGCAGCAGAA

50

AGGGCCGGCA CCACAUGACG UAAAAGCUUC GCUCUAGAUC UCCCUUAGU

100

GAGGGUUA

108



## (2) INFORMATION FOR SEQUENCE ID NO: 30:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 92 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 30:

GGGGGAGAAC GCGGAUCCGG UGGGAAAGUC GGAUUAUGUG UGUAGAUUUG	50
UGUGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA	92

## (2) INFORMATION FOR SEQUENCE ID NO: 31:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-amino (2'-NH<sub>2</sub>) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 31:

GGAGAACGCG GAUCCUGAGA AGGACGUCGG GGUCAACGGG GUGAGGUGCA	50
GCAGAAAGGG CCGGCACCA	69

## (2) INFORMATION FOR SEQUENCE ID NO: 32:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 32:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU	50
AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGAAGCUUCG CUCUAGAUCU	100
CCCUUAGUG AGGGUUA	117

## (2) INFORMATION FOR SEQUENCE ID NO: 33:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'Fluoro (2'-F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 33:

114

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU 50  
 AGGGAAACCU AUGUAUAAGA ACGCGGUCGC AGA 83

## (2) INFORMATION FOR SEQUENCE ID NO: 34:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 116 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 34:

GGGGGAGAAC GCGGAUCCUG CUAGACCGAG GAUGCAAAGG GACAUGCAUU 50  
 AGGGAAACCU AUUAUAAGAA CGCGGUCGCA GAAGCUCGCG UCUAGAUCUC 100  
 CCUUUAGUGA GGGUUA 116

## (2) INFORMATION FOR SEQUENCE ID NO: 35:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All C's are 2'-F uracil

## (ix) FEATURE:

- (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> cytosine

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 35:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCUUCG CUCUAGAUCU 100  
 CCCUUUAGUG AGGGUUA 117

## (2) INFORMATION FOR SEQUENCE ID NO: 36:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 81 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All C's are 2'-F uracil

## (ix) FEATURE:

- (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> cytosine

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 36:

GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCCCUCCAUG CAGGAGGGGG GUGGUUCGGA G 81

## (2) INFORMATION FOR SEQUENCE ID NO: 37:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single

115

(D) TOPOLOGY: linear  
 (11) MOLECULAR TYPE: RNA  
 (1x) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-F uracil  
 (1x) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> cytosine  
 (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 37:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCGCUCCAUG CAGGAGGGGG GUGGUUCGGA GAAAGCTUCG CUCUAGAUCU 100  
 CCCUUGAGUG AGGGUUA 117

(2) INFORMATION FOR SEQUENCE ID NO: 38:  
 (1) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 115 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (11) MOLECULAR TYPE: RNA  
 (1x) FEATURE:  
 (D) OTHER INFORMATION: All C's are 2'-F uracil  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub> cytosine  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 38:  
 GGGGGAGAAC GCGGAUCCUG UCUCACCGC CGAUACUGGG GUUCCUGGGG 50  
 CCGCUCCAUG CAGGAGGGGU GGUUCGGA GAAAGCTUCU CUAGAUCUCC 100  
 CUUUGAGUGAG GGUUA 115

(2) INFORMATION FOR SEQUENCE ID NO: 39:  
 (1) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 92 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (11) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 39:  
 GGGGGAGAAC GCGGAUCCGG AAGUCUGGUC UUUGGGGAGU CCGCAUGGCC 50  
 CUGGCGAAAG CUUCGCUCUA GAUCUCCCUU UAGUGAGGGU UA 92

(2) INFORMATION FOR SEQUENCE ID NO: 40:  
 (1) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 111 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (11) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-Fluoro (2'-F) modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 40:  
 GGGGGAGAAC GCGGAUCCAA GAAUGUUCGG CCGCAGGAGG UGACAGUGGU 50  
 GCGGAUACGG ACCGAUUGGG UUUGCCAAGC UUCGCUCUAG AUCUCCCUU 100

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AGUGAGGGUUA

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## (2) INFORMATION FOR SEQUENCE ID NO: 41:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 117 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 41:

GGGGGAGAAC GCGGAUCCGG UCACCCGGGC AUAUAACAAU GCCGACACUG 50  
 GGGUACCGGG GACGGGUGGG ACUGGACGGA AGAAGCJUCG CUCUAGAUCU 100  
 CCCUUUAGUG AGGGUUA 117

## (2) INFORMATION FOR SEQUENCE ID NO: 42:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 119 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 42:

GGGGGAGAAC GCGGAUCCAU AACCGGCUGC AUGGGAGGGA CAUCCUGGGA 50  
 AAGGACGGGU CGAGAUGACC UGAGCAGUUC CGGCAAGCUU CGCUCUAGAU 100  
 CUCCUUUAG UGAGGGUUA 119

## (2) INFORMATION FOR SEQUENCE ID NO: 43:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 43:

TCGGGCGAGT CGTCTGNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
 NNNNNNCCGC ATCGTCCTCC C 71

## (2) INFORMATION FOR SEQUENCE ID NO: 44:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 32 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 44:

TAATACGACT CACTATAGGG AGGACGATGC GG 32

## (2) INFORMATION FOR SEQUENCE ID NO: 45:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 16 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

117

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4  
TCTGGCGAGT CGTCTG

(2) INFORMATION FOR SEQUENCE ID NO: 46:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4  
GGGAGGACGA TGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNN  
NNNNNCAGAC GACTCGCCCG A

(2) INFORMATION FOR SEQUENCE ID NO: 47:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 15 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4  
GGGAGGACGA TGCGG

(2) INFORMATION FOR SEQUENCE ID NO: 48:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 19 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(ix) FEATURE:

(D) OTHER INFORMATION: N at position --

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4  
NNNTCGGGCG AGTCGTCTG

(2) INFORMATION FOR SEQUENCE ID NO: 49:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 87 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4  
GCCTGTTGTG AGCCTCCTGT CGAANNNNNN NNNNNNNNNN NNNN  
NNNNNNNNNN NNNNTTGAGC GTTATTCTT GTCTCCC

(2) INFORMATION FOR SEQUENCE ID NO: 50:

- (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 40 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 50:  
TAATACGACT CACTATAGGG AGACAAGAAAT AAACGCTCAA 40
- (2) INFORMATION FOR SEQUENCE ID NO: 51:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 51:  
GCCTGTTGTG AGCCTCCTGT CGAA 24
- (2) INFORMATION FOR SEQUENCE ID NO: 52:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 87 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 52:  
GGGAGACAAG AATAAACGCT CAANNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNNNNN NNNTTCGACA GGAGGCTCAC AACAGGC 87
- (2) INFORMATION FOR SEQUENCE ID NO: 53:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 23 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 53:  
GGGAGACAAG AATAAACGCT CAA 23
- (2) INFORMATION FOR SEQUENCE ID NO: 54:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 27 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: N at positions 1-3 is biotin  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 54:  
NNNGCCTGTT GTGAGCCTCC TGTCGAA 27
- (2) INFORMATION FOR SEQUENCE ID NO: 55:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 55:

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GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

## (2) INFORMATION FOR SEQUENCE ID NO: 56:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 56:

GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTAGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

## (2) INFORMATION FOR SEQUENCE ID NO: 57:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 57:

GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTAGTACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCG A 71

## (2) INFORMATION FOR SEQUENCE ID NO: 58:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 58:

GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTATACTA CTTACTTACG 50  
TCTTCAGACG ACTCGCCCGA 70

## (2) INFORMATION FOR SEQUENCE ID NO: 59:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 59:

GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGAATACT ACTTACTTAC 50  
ATCTTCAGAC GACTCGCCCG A 71

## (2) INFORMATION FOR SEQUENCE ID NO: 60:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 60:  
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTAATACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 61:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 61:  
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 62:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 62:  
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGCT TCTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 63:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 73 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 63:  
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTGTA CTTTTCCTG 50  
CGTCTTCAG ACGACTCGCC CGA 73

(2) INFORMATION FOR SEQUENCE ID NO: 64:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 64:  
GGGAGGACGA TCGGCCAGG GGGGGTATGG GGGTGGTTCG TTTTCTTTG 50  
CGGCTTCAGA CGACTCGCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 65:

- (i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear



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- (11) MOLECULAR TYPE: DNA  
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 65:  
GGGAGGACGA TGCGGCCAGG GGGGGTGTGG GGGTGGTGTA CTTTTCTTG 50  
TCTTCCAGAC GACTCGCCCC A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 66:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 66:  
GGGAGGACGA TGCGGCCAGG GGGGGTATGG GGGTGGTTTG GTATGTTGCC 50  
TCCGTCAGAC GACTCGCCCC A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 67:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 67:  
GGGAGGACGA TGCGGCCGGG GTGGGTATGG GGGTAATACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCC A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 68 :  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 68:  
GGGAGGACGA TGCGGCCGGG GGTGGGTAGG GGGGTAGTGC TACTTACTTA 50  
CGTCTTCAGAC GACTCGCCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 69:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 69:  
GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGGTAGTACT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCC A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 70:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

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(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 70.  
GGGAGGACGA TCGGCCAGG GTGGGTATGG GGGTAGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 71:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 71:  
GGGAGGACGA TCGGCCCGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
GTCTTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 72:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 72:  
GGGAGGACGA TCGGCCTGG GTGGGTATGG GGGTGGTGCT ACTTACTTGC 50  
GTCTTCAGACG ACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 73:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 73:  
GGGAGGACGA TCGGCCACG GGTGGGTGTG GGGTAGTGTA TCTCACTTTA 50  
CATCACCAGA CGACTCGCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 74:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 74:  
GGGAGGACGA TCGGCCCGG GGTGGGTGTG GGGTAGTGTA TTATATTTAC 50  
AGCCTCAGAC GACTCGCCCG A 71

(2) INFORMATION FOR SEQUENCE ID NO: 75:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid

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- (C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 75:  
GGGAGGACGA TCGGCCAGG GTCGGTGTGG GGTGGTGTAC TTTTCCTGT 50  
CCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 76:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 76:  
GGGAGGACGA TCGGCCAGG GTCGGTATGG GGTAGTGTAC TTTTAAATGA 50  
TCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 77:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 77:  
GGGAGGACGA TCGGCCCGG GGGAGAGCGG TGGGTAGTGT TCTATAGTAT 50  
TCGTGTCAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 78:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 78:  
GGGAGGACGA TCGGCCAGG GGGGGTATGT TTTAATACT ACTTACTTAC 50  
GTCTTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 79:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 79:  
GGGAGGACGA TCGGCCAGG GAGGTATGG GGGTGGTGT TCTAGTTTGT 50  
CGGCGTCAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 80:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs

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(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 80:  
GGGAGGACGA TGCGGCCAGG GTGGGCATGG GGGTGGTGTG GATTAATTCT 50  
TCSTCCCAGA CACTCGCCCC GA 72

(2) INFORMATION FOR SEQUENCE ID NO: 81:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 81:  
GGGAGGACGA TGCGGCCAGG GTCGGTGTGG GGTGGTGTTC TTATTTACTC 50  
GTCGCCAGAC GACTCGCCCC A 71

(2) INFORMATION FOR SEQUENCE ID NO: 82:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 82:  
GGGAGGACGA TGCGGGGGGC GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50  
CCAGCCAGAC GACTCGCCCC A 71

(2) INFORMATION FOR SEQUENCE ID NO: 83:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 67 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 83:  
GGGAGGACGA TGCGGCCAGG TGTGGGGTGG TTTGGGTTTC CTTTCGTCGC 50  
CCAGACGACT CGCCCCA 67

(2) INFORMATION FOR SEQUENCE ID NO: 84:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 84:  
GGGAGGACGA TGCGGCCAGG GTGGGTATGG GGGTTTAATT AATTCTTCGT 50  
CCCACAGACG ACTCGCCCCA 70

(2) INFORMATION FOR SEQUENCE ID NO: 85:  
(i) SEQUENCE CHARACTERIZATION:

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- (A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 85:  
GGGAGGACGA TCGGGGGGGC GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50  
CGAGCCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 86:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 72 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 86:  
GGGAGGACGA TCGGCCCCGG GGTGGGTGTG GGGTGGTGTG AATTAATTCT 50  
TCGTCCCAGA CGACTCGCCC GA 72
- (2) INFORMATION FOR SEQUENCE ID NO: 87:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 87:  
GGGAGGACGA TCGGCCCCGG GGTGGGTGTG GGGTGGTGTG TTATATTTGC 50  
GGCCTCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQUENCE ID NO: 88:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 88:  
GGGAGGACGA TCGGCCCAGG GTCGGTGTGG GTGGTGTACT TTTTCCTGTC 50  
CTTCCAGACG ACTCGCCCGA 70
- (2) INFORMATION FOR SEQUENCE ID NO: 89:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 89:  
GGGAGGACGA TCGGGGGGGC GGCTTGAAG AGGTTGCCCG TTGGAGTATT 50  
CGAGCCAGAC GACTCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 90:

126

- (1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 85 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 90:  
ATCCGCCTGA TTAGCGATAC TNNNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNNNNN NACTTGAGCA AATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 91:  
(1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 28 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: N at positions 1-3 is biotin  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 91:  
NNNCCCCTGC AGGTGATTTT GCTCAAGT 28
- (2) INFORMATION FOR SEQ ID NO: 92:  
(1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 49 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 92:  
CCGAAGCTTA ATACGACTCA CTATAGGGAT CCGCCTGATT AGCGATACT 49
- (2) INFORMATION FOR SEQ ID NO: 93:  
(1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 84 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 93:  
ATCCGCCTGA TTAGCGATAC TAGGCTTGAC AAAGGGCACC ATGGCTTAGT 50  
GGTCCTAGTA CTTGAGCAAA ATCACCTGCA GGGG 84
- (2) INFORMATION FOR SEQ ID NO: 94:  
(1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 85 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 94:  
ATCCGCCTGA TTAGCGATAC TCAGGGCACT GCAAGCAATT GTGGTCCCAA 50  
TGGGCTGAGT ACTTGAGCAA AATCACCTGC AGGGG 85

## (2) INFORMATION FOR SEQ ID NO: 95:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 95:

ATCCGCCTGA TTAGCGATAC TCCAGGCAGT CATGGTCATT GTTTACAGTC 50  
GTGGASTAGG TACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 96:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 96:

ATCCGCCTGA TTAGCGATAC TAGGTGATCC CTGCAAAGGC AGGATAACGT 50  
CCTGAGCATC ACTTGAGCAA AATCACCTGC AGGGG 85

## (2) INFORMATION FOR SEQ ID NO: 97:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 97:

ATCCGCCTGA TTAGCGATAC TATGTGATCC CTGCAGAGGG AGGANACGTC 50  
TTGAGCATCAC TTGAGCAAAA TCACCTGCAG GGG 83

## (2) INFORMATION FOR SEQ ID NO: 98:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 98:

ATCCGCCTGA TTAGCGATAC TCACGTGATC CCATAAGGGC TGCGCAAAAT 50  
AGCAGAGCAT CACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 99:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 99:

ATCCGCCTGA TTAGCGATAC TGGTGGACTA GAGGGCAGCA AACGATCCTT 50  
GGTTAGCGTC CACTTGAGCA AAATCACCTG CAGGGG 86

- (2) INFORMATION FOR SEQ ID NO: 100:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 100:
- ATCCGCCTGA TTAGCGATAC TGGTGGGACG AGGCTTACAC AAACGTACAC 50
- GTTTCCCCCGC ACTTGAGCAA AATCACCTGC AGGGG 85
- (2) INFORMATION FOR SEQ ID NO: 101:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 101:
- ATCCGCCTGA TTAGCGATAC TTGTGGGAGC AGGGGCGTAC GAAACTTTA 50
- CAGTTCCCCC GACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 102:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 102:
- ATCCGCCTGA TTAGCGATAC TAGTGAACA GGGCACGGAG AGTCAAACCT 50
- TGGTTTCCCC CACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 103:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 103:
- ATCCGCCTGA TTAGCGATAC TGTGGGTAGG GATCGGTGGA TGCCTCGTCA 50
- CTTCTAGTCC CACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 104:
- (i) SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear
- (ii) MOLECULAR TYPE: DNA
- (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 104:
- ATCCGCCTGA TTAGCGATAC TGGGCGCCCT AAACAAAGGG TGGTCACTTC 50



TATCCCAAG AACTTGAGCA AATCACCTG CAGGGG

85

## (2) INFORMATION FOR SEQ ID NO: 105:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 87 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 105:

ATCCGCCTGA TTAGCGATAC TTCCGGGCTC GGGATTCGTG GTCACCTTCA  
GTCCCGGATA TAACTTGAGC AAAATCACCT GCAGGGG

50

87

## (2) INFORMATION FOR SEQ ID NO: 106:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 84 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 106:

ATCCGCCTGA TTAGCGATAC TATGGGAGGG CGCGTCTTC GTGGTACTT  
TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG

50

84

## (2) INFORMATION FOR SEQ ID NO: 107:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 84 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 107:

ATCCGCCTGA TTAGCGATAC TACGGGAGGG CACGTTCTTC GTGGTACTT  
TTAGTCCCGA CTTGAGCAAA ATCACCTGCA GGGG

50

84

## (2) INFORMATION FOR SEQ ID NO: 108:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 108:

ATCCGCCTGA TTAGCGATAC TGCTCGTAGG GGGCGATTCT TTCGCCGTTA  
CTTCCAGTCC TACTTGAGCA AAATCACCTG CAGGGG

50

86

## (2) INFORMATION FOR SEQ ID NO: 109:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 109:

130

ATCCGCTGA TTAGCGATAC TGAGGCATGT TAACATGAGC ATCGTCTCAC 50  
GATGCTCAGC CACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 110:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 110:

ATCCGCTGA TTAGCGATAC TCCACAGGCT ACGGCACGTA GAGCATCACC 50  
ATGATCCTGT GACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 111:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 111:

ATCCGCTGA TTAGCGATAC TGCGGGCATG GCACATGAGC ATCTCTGATC 50  
CCGCAATCCT CACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 112:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 112:

ATCCGCTGA TTAGCGATAC TACCGGGCTA CTTCTAGAG CATCTCTGAT 50  
CCCGGTGCTC GACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 113:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 113:

ATCCGCTGA TTAGCGATAC TAAAGGGCGA ACGTAGGTCG AGGCATCCAT 50  
TGGATCCCTT CACTTGAGCA AAATCACCTG CAGGGG 86

## (2) INFORMATION FOR SEQ ID NO: 114:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

131

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 114:  
ATCCGCCTGA TTAGCGATAC TACGGGCTCT GTCACTGTGG CACTAGCAAT 50  
AGTCCCGTCG CACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 115:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 115:  
ATCCGCCTGA TTAGCGATAC TGGGCAGACC TTCTGGACGA GCATCACCTA 50  
TGTGATCCCG ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 116:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 116:  
ATCCGCCTGA TTAGCGATAC TAGAGGGGAA GTAGGCTGCC TGACTCGAGA 50  
GAGTCCTCCC GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 117:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 86 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 117:  
ATCCGCCTGA TTAGCGATAC TAGGGGTGCG AACACATAA TCCTCGCGGA 50  
TTCCCATCGC TACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 118:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 83 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: DNA

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 118:  
ATCCGCCTGA TTAGCGATAC TGGGGGGGCA ATGGCGGTAC CTCTGGTCCC 50  
CTAAATACAC TTGAGCAAAA TCACCTGCAG GGG 83

(2) INFORMATION FOR SEQ ID NO: 119:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 85 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(11) MOLECULAR TYPE: DNA  
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 119:  
ATCCGCCTGA TTAGCGATAC TGCGGCTCAA AGTCCTGCTA CCCGCAGCAC 50  
ATCTGTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 120:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(11) MOLECULAR TYPE: DNA  
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 120:  
ATCCGCCTGA TTAGCGATAC TTTGGGCGTG AATGTCCACG GGTACCTCCG 50  
GTCCCAAAGA GACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 121:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 85 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 121:  
ATCCGCCTGA TTAGCGATAC TTCCGCGCAA GTCCCTGGTA AAGGGCAGCC 50  
CTAACTGGTC ACTTGAGCAA AATCACCTGC AGGGG 85

(2) INFORMATION FOR SEQ ID NO: 122:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 122:  
ATCCGCCTGA TTAGCGATAC TCAAGTTCCC CACAAGACTG GGGCTGTTCA 50  
AACCGCTAGT AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 123:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 123:  
ATCCGCCTGA TTAGCGATAC TCAAGTAGGG CGCGACACAC GTCCGGGCAC 50  
CTAAGGTCCC AACTTGAGCA AAATCACCTG CAGGGG 86

(2) INFORMATION FOR SEQ ID NO: 124:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 86 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single

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- (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 124:  
ATCCGCTGA TTAGCGATAC TAAASTCGTG CAGGGTCCCC TGGAAGCATC 50  
TCCGATCCCC GACTTGAGCA AAATCACCTG CAGGGG 86
- (2) INFORMATION FOR SEQ ID NO: 125:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 96 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 125:  
GGGAGACAAG AAUAACGCUC AANNNNNNNN NNNNNNNNNN NNNNNNNNNN 50  
NNNNNNNNNN NNNNNNNNNN NNNUCGACAG GAGGCUCACA ACAGGC 96
- (2) INFORMATION FOR SEQ ID NO: 126:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 39 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 126:  
TAATACGACT CACTATAGGG AGACAAGAAT AACGCTCAA 39
- (2) INFORMATION FOR SEQ ID NO: 127:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 24 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 127:  
GCCTGTTGTG AGCCTCTGTG CGAA 24
- (2) INFORMATION FOR SEQ ID NO: 128:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 93 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 128:  
GGGAGACAAG AAUAACGCUC AACGGUGGCA UUUCUUCACU UCCUUCUCGC 50  
UUUCUCGCGU UGGGCNCGAU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 129:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 91 base pairs  
(B) TYPE: nucleic acid

134

(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 129:  
GGGAGACAAG AAUAACGCUC AACCAACCUU CUGUCGGCGU UGCUUUUUGG 50  
ACGGCACUCA GGCUCCAUUC GACAGGAGGC UCACAACAGG C 91

(2) INFORMATION FOR SEQ ID NO:130:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 95 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:130::  
GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCCUUA 50  
ACCAGGGCUG GGACCGAGGC CUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 131:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 92 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 131:  
GGGAGACAAG AAUAACGCUC AACUGAGUAG GGGAGGAAGU UGAUAUCAGUU 50  
GUGGCGCCUC UCAUUCGCUU CGACAGGAGG CUCACAACAG GC 92

(2) INFORMATION FOR SEQ ID NO: 132:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 95 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 132:  
GGGAGACAAG AAUAACGCUC AACAGCACUU UCGCUUUUCA UCAUUUUUUC 50  
UUUCCACUGU UGGGCGCGGA AUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 133:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 96 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

(1) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 133:  
GGGAGACAAG AAUAACGCUC AAUCAGUGCU GGCGUCAUGU CUCGAUGGGG 50  
AUUUUUCUUC AGCACUUUGC CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 134:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 96 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 134:  
GGGAGACAAG AAUAACGCUC AAUCUACUUU CCAUUUCUCU UUUCUUCUCA 50  
CGAGCGGGUU UCCAGUGAAC CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 135:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 94 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 135:  
GGGAGACAAG AAUAACGCUC AACGAUAGUG ACUACGAUGA CGAAGGCCCGC 50  
GGGUUGGAUG CCCGCAUUGA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 136:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 93 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 136:  
GGGAGACAAG AAUAACGCUC AAGUCGAUAC UGGCGACUUG CUCCAUGGC 50  
CGAUUAACGA UUCGGUCAGU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 137:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 95 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:

136

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 137:  
 GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50  
 UUCGAUCGAC UUUCCUUUCC AUUCGACAGG AGGCUCACAA CAGGC 95

## (2) INFORMATION FOR SEQ ID NO: 138:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 138:  
 GGGAGACAAG AAUAACGCUC AAUUAUCCGCG UCCGAUUAA UCCUGUCUC 50  
 GGAUAUCCGU AGCAUAGUG CAUUCGACAG GAGGCUCACA ACAGGC 96

## (2) INFORMATION FOR SEQ ID NO: 139:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 139:  
 GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG 50  
 UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC 94

## (2) INFORMATION FOR SEQ ID NO: 140:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 140:  
 GGGAGACAAG AAUAACGCUC AAGCGAAACU GGCGACUUGC UCCAUUGGCC 50  
 GAUAUAACGA UUCGGUUCAU UUCGACAGGA GGCUCACAAC AGGC 94

## (2) INFORMATION FOR SEQ ID NO: 141:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 95 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 141:



137

GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUCG CAAGGGAUGG 50  
 UUGGAUAGGC UCUACGCUCA AUUCGACAGG AGGUCACAA CAGGC 95

## (2) INFORMATION FOR SEQ ID NO: 142:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 94 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 142:

GGGAGACAAG AAUAACGCUC AACGAGAAGU GACUACGAUG ACGAAGGCCG 50  
 CGGGUUGAAU CCCUCAUGA UUCGACAGGA GGCUCACAAC AGGC 94

## (2) INFORMATION FOR SEQ ID NO: 143:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 95 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 143:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACCUGACG CCUGAUGUGA 50  
 CUGUGCUUGC ACCCGAUUCU GUUCGACAGG AGGCUCACAA CAGGC 95

## (2) INFORMATION FOR SEQ ID NO: 144:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 96 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 144:

GGGAGACAAG AAUAACGCUC AAGUGAUUCU CAUUCUCAAU GCUUUCUCAC 50  
 AACUUUUUC ACTUCAGCGU GAUUCGACAG GAGGCUCACA ACAGGC 96

## (2) INFORMATION FOR SEQ ID NO: 145:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 94 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 145:

GGGAGACAAG AAUAACGCUC AAAAGCAACG AGACUCGACG CCUGAUGUGA 50  
 CUGUGCUUGC ACCCGAUUCU UUCGACAGGA GGCUCACAAC AGGC 94

## (2) INFORMATION FOR SEQ ID NO: 146:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 146:

GGGAGACAAG AAUAACGCUC AAUCGAUCGG UUGUGUGCCG GACAGCUUUG	50
ACCAJGAGCU GGGACCGAGG CCUUCGACAG GAGGCUCACA ACAGGC	96

## (2) INFORMATION FOR SEQ ID NO: 147:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 96 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 147:

GGGAGACAAG AAUAACGCUC AANGACNGU GGACCUGACU AAUCGACUGA	50
UCAAGAUAUC CGCCAGAUG GGUUCGACAG GAGGCUCACA ACAGGC	96

## (2) INFORMATION FOR SEQ ID NO: 148:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 148:

GGGAGACAAG AAUAACGCUC AACACUGCGA CUUGCAGAAG CCUUGUGUGG	50
CGGUACCCCC UUUGGCCUCG UUCGACAGGA GGCUCACAAC AGGC	94

## (2) INFORMATION FOR SEQ ID NO: 149:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 94 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 149:

GGGAGACAAG AAUAACGCUC AAGGUGGCAU UUCUUAUUU UCCUUCUCGC	50
UUUCUCCGCC GUUGGGCGCG UUCGACAGGA GGCUCACAAC AGGC	94

## (2) INFORMATION FOR SEQ ID NO: 150:

- 1 SEQUENCE CHARACTERIZATION:
- (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 150:
- |  |    |
|--|----|
| GGGAGACAAG AAUAACGCUC AACCGAGUA GGGGGGAAAG UGAAUCAGU | 50 |
| UGUGGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC  | 96 |
- (2) INFORMATION FOR SEQ ID NO: 151:
- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 151:
- |  |    |
|--|----|
| GGGAGACAAG AAUAACGCUC AAGUCGAAAC UGGCGACUUG CUCCAUUGGC | 50 |
| CGAUUAACG AUUCGGUUA UUCGACAGGA GGCUCACAAC AGGC         | 94 |
- (2) INFORMATION FOR SEQ ID NO: 152:
- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 94 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 152:
- |  |    |
|--|----|
| GGGAGACAAG AAUAACGCUC AAGCGAUACU GGCGACUUGC UCCAUUGGCC | 50 |
| GAUUAACGA UUCGGCUCAG UUCGACAGGA GGCUCACAAC AGGC        | 94 |
- (2) INFORMATION FOR SEQ ID NO: 153:
- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 96 base pairs
  - (B) TYPE: nucleic acid
  - (C) STRANDEDNESS: single
  - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
  - (D) OTHER INFORMATION: All pyrimidines are 2'-F modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 153:
- |  |    |
|--|----|
| GGGAGACAAG AAUAACGCUC AAACGUGGG CACAGGACCG AGAGUCCUC | 50 |
| CGGCAUAGC CGCUACCCCA CCUUCGACAG GAGGCUCACA ACAGGC    | 96 |
- (2) INFORMATION FOR SEQ ID NO: 154:
- (i) SEQUENCE CHARACTERIZATION:
  - (A) LENGTH: 98 base pairs

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(B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 154:  
 GGGAGACAAG AAUAACGCUC AACACAGCCU NANAGGGGGG AAGUUGAAUC 50  
 AGUUGUGGCG CUCUACUCAU UCGCUUCGAC AGGAGGCUCA CAACAGGC 98

(2) INFORMATION FOR SEQ ID NO: 155:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 94 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 155:  
 GGGAGACAAG AAUAACGCUC AAANGGGNUA UGGUGACTUG CUCCAUGGC 50  
 CGAUAURACG AUUCGGUCAG UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 156:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 156:  
 GGGAGACAAG AAUAACGCUC AACCGCGUA GGGNGGGAAG UUGAAUCAGU 50  
 UGUGGCGCUC UACUCAUUCG CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 157:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 94 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 157:  
 GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGAUGG 50  
 UUGGAUAGGC UCUACGCUCA UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 158:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 97 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single

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- (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 158:  
 GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50  
 UUCGAUUCGC UUCCNCAUU CCAJUCGACA GGAGGCUCAC AACAGGC 97
- (2) INFORMATION FOR SEQ ID NO: 159:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 93 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 159:  
 GGGAGACAAG AAUAACGCUC AACGAACGAG GAGGGAGUGG CAAGGGACGG 50  
 UNNAUAGGCU CUACGCUCAU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 160:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 93 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 160:  
 GGGAGACAAG AAUAACGCUC AAUCGGUGUG GCUCAGAAAC UGACACGCGU 50  
 GAGCUUCGCA CACAUCUGCU UCGACAGGAG GCUCACAACA GGC 93
- (2) INFORMATION FOR SEQ ID NO: 161:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 95 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 161:  
 GGGAGACAAG AAUAACGCUC AAUAUCGCUU UUCAUCAU CCACUUUUUC 50  
 ACUCUNUAAU UUGGGCGUGC AUUCGACAGG AGGCUCACAA CAGGC 95
- (2) INFORMATION FOR SEQ ID NO: 162:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA

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(ix) FEATURE  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 162:  
GGGAGACAAG AAUAACGCUC AAGUGCAAAC UUAACCCGGG AACCGCGCGU 50  
UUCGAUCCUG CAUCCUUUUU CCUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 163:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 93 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 163:  
GGGAGACAAG AAUAACGCUC AAUCGNUCGG UUGUGUGCCG GCAGCUUUGU 50  
CCAGCGUUGG GCCGAGGCCU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 164:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 95 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 164:  
GGGAGACAAG AAUAACGCUC AAAGUACCCA UCUCAUUUU UCCUUUCCUU 50  
UCUUCAAGGC ACAUUGAGGG UUUCGACAGG AGGCUCACAA CAGGC 95

(2) INFORMATION FOR SEQ ID NO: 165:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 97 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 165:  
GGGAGACAAG AAUAACGCUC AACCUGAGUA GGGGGGGAAG UUGAACCAGU 50  
UGUGGCNGCC UACUCAUUCN CCAUUCGACA GGAGGCUCAC AACAGGC 97

(2) INFORMATION FOR SEQ ID NO: 166:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 94 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-F modified

(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 166:  
 GGGAGACAAG AAUAACGCUC AACCNCCUN CUGUCGGCGC UUGUCUUUUU 50  
 GGACGGGCAA CCCAGGGCUC UUCGACAGGA GGCUCACAAC AGGC 94

(2) INFORMATION FOR SEQ ID NO: 167:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 167:  
 GGGAGACAAG AAUAACGCUC AACCAACCUN CUGUCGGCGC UUGUCUUUUU 50  
 GGACGAGCAA CUCAAGGCUC GUUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 168:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 93 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 168:  
 GGGAGACAAG AAUAACGCUC AACCAAGCA GAUCCCGGC UGAAGUGACU 50  
 GCCGCAACG GCCGCUCCAU UCGACAGGAG GCUCACAACA GGC 93

(2) INFORMATION FOR SEQ ID NO: 169:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 169:  
 GGGAGACAAG AAUAACGCUC AAUCCCGUA ACAACUUUC AUUUUCACUU 50  
 UUCAUCCAAC CAGUGAGCAG CAUUCGACAG GAGGCUCACA ACAGGC 96

(2) INFORMATION FOR SEQ ID NO: 170:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 96 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-F modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 170:  
 GGGAGACAAG AAUAACGCUC AAUAUCGCUU UCAUCAAAU CCACUCCUUC 50

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ACUUCUUUAA CUUGGGCGUG CAUUCGACAG GAGGCUUACA ACAGGC

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## (2) INFORMATION FOR SEQ ID NO: 171:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 23 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 1 and 23 base pair to each other and can be 1-4 base pairs long.

## (ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 5 and 10 is any base pair.

## (ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 6 and 9 is any base pair.

## (ix) FEATURE:

- (D) OTHER INFORMATION: N at positions 7 and 8 is any base pair.

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 171:

NGGCNNNNNN GRKYAYYRRT CCN

23

## (2) INFORMATION FOR SEQ ID NO: 172:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: Nucleotide 38 is an inverted orientation T (3'-3' linked)

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 172:

TGGGAGGGCG CGTTCTTCGT GGTACTTTT AGTCCCGT

38

## (2) INFORMATION FOR SEQ ID NO: 173:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 40 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: Nucleotide 40 is an inverted orientation T (3'-3' linked)

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 173:

CACAGGCTAC GGCACGTAGA GCATCACCAT GATCCTGTGT

40

## (2) INFORMATION FOR SEQ ID NO: 174:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 45 base pairs



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(E) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: Nucleotide 45 is an  
inverted orientation T (3'-3' linked)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 174:  
TACTCAGGC ACTGCAAGCA ATTGTGGTCC CAATGGGCTG AGTAT

45

## (2) INFORMATION FOR SEQ ID NO: 175:

(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 36 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: C at positions 8, 11,  
25 and 26 is 2'-O-methyl-2'-deoxycytidine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: G at positions 9, 10,  
17, 19 and 35 is 2'-O-methyl-2'-deoxyguanosine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: A at positions 12, 24  
and 27 is 2'-O-methyl-2'-deoxyadenosine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: U at position 34 is  
2'-O-methyl-2'-deoxyuridine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: U at positions 6 and 22 is  
2'-fluoro-2'-deoxyuridine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: C at positions 23, 32 and  
33 is 2'-fluoro-2'-deoxycytidine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: Nucleotide 36 is an  
inverted orientation T (3'-3' linked).  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 175:  
CAGGCUACGG CACGTAGAGC AUCACCATGA TCCUGT

36

## (2) INFORMATION FOR SEQ ID NO: 176:

(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 32 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: C at position 8 is 2'-  
O-methyl-2'-deoxycytidine.  
(ix) FEATURE:  
(D) OTHER INFORMATION: G at positions 9, 17  
and 31 is 2'-O-methyl-2'-deoxyguanosine.

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- (1x) FEATURE:  
(D) OTHER INFORMATION: A at position 22 is 2'-O-methyl-2'-deoxyadenine.
- (1x) FEATURE:  
(D) OTHER INFORMATION: U at position 30 is 2'-O-methyl-2'-deoxyuridine.
- (1x) FEATURE:  
(D) OTHER INFORMATION: U at positions 6 and 20 is 2'-fluoro-2'-deoxyuridine.
- (1x) FEATURE:  
(D) OTHER INFORMATION: C at positions 21, 28 and 29 is 2'-fluoro-2'-deoxycytidine.
- (1x) FEATURE:  
(D) OTHER INFORMATION: N at positions 10 and 23 is pentaethylene glycol phosphoramidite spacer.
- (1x) FEATURE:  
(D) OTHER INFORMATION: Nucleotide 32 is an inverted orientation T (3'-3' linked)
- (x1) SEQUENCE DESCRIPTION: SEQ ID NO: 176:  
CAGGCUACGN CGTAGAGCAU CANTGATCCU GT 32
- (2) INFORMATION FOR SEQ ID NO: 177:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 39 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: Nucleotide 39 is an inverted orientation T (3'-3' linked)  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 177:  
CAGTCCGTGG TAGGGCAGGT TGGGGTGACT TCGTGGAAT 39
- (2) INFORMATION FOR SEQ ID NO: 178:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at positions 13, 14, 16 and 17 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 178:  
TGGGAGGGCG CGTTCCTTCGT GGTTACTTTT AGTCCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 179:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

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- (ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 20 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 179:  
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 180:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 23 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 180:  
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 181:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 24 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 181:  
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 182:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at position 27 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 182:  
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37
- (2) INFORMATION FOR SEQ ID NO: 183:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 37 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: DNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: T at positions 28-30 is substituted with IdU.  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 183:  
TGGGAGGGCG CGTCTTCGT GGTTACTTTT AGTCCCG 37

## (2) INFORMATION FOR SEQ ID NO: 184:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: DNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: T at position 33 is substituted with IdU.

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 184:

TGGGAGGGCG CGTTCTTCGT GGTTACTTTT AGTCCCCG

37

## (2) INFORMATION FOR SEQ ID NO: 185:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 7 amino acids
- (B) TYPE: amino acid
- (C) STRANDEDNESS:
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: Peptide

## (ix) FEATURE:

- (D) OTHER INFORMATION: Xaa at position 5 is a modified amino acid that could not be identified.

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 185:

Lys Lys Pro Ile Xaa Lys Lys

5

## (2) INFORMATION FOR SEQ ID NO: 186:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 186:

GGGAGGACGA UGCGGNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN

50

NNNNNCAGAC GACUCGCCCG A

71

## (2) INFORMATION FOR SEQ ID NO: 187:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 32 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 187:

TAATACGACT CACTATAGGG AGGACGATGC GG

32

## (2) INFORMATION FOR SEQ ID NO: 188:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 16 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(11) MOLECULAR TYPE: RNA  
(x1) SEQUENCE DESCRIPTION: SEQ ID NO: 188:  
TCGSGCGAGT CGTCTG

16

(2) INFORMATION FOR SEQ ID NO: 189:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 189:

GGGAGGACGA UGCGGGAAGG GACGAUAAAG AGGAAUCGAA CAACAAGUGG  
CUGGCCAGAC GACUCGCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 190:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 190:

GGGAGGACGA UGCGGGCGGG AAGGUCCGAA GACCGGCGAA AGGAACGAGA  
UUGCCCAGAC GACUCGCCCG A

50

71

(2) INFORMATION FOR SEQ ID NO: 191:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 191:

GGGAGGACGA UGCGGGUGGU GAAGAGGUAC CGGAUUGCU AAAGAUACCA  
GGCCCAGACG ACUCGCCCGA

50

70

(2) INFORMATION FOR SEQ ID NO: 192:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 192:

GGGAGGACGA UGCGGGCAGG GAGCAAUGAA CUCAAGUCAA GCCGGUGCAC

50

GUGGGCAGAC GACUCGCCCCG A

71

## (1) INFORMATION FOR SEQ ID NO:193:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:193:

GGGAGGACGA UGCGGUAGCU GCUGUCAUGC AAGACACUAG AAGAUUAAGA 50

UGGGGCAGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO:194:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO:194:

GGGAGGACGA UGCGGGGGCC GGAUUUGAAC CGACGACUUC GGGUUAUGAG 50

CCCGACGUCA GACGACUCGC CCGA 74

## (2) INFORMATION FOR SEQ ID NO: 195:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 195:

GGGAGGACGA UGCGGUCCAG GGAUUGAAGU GUCGGGUUAG GAACAUAAAG 50

GCGGCCAGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO: 196:

## (i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 196:

GGGAGGACGA UGCGGAAGUU CUAACAAGUU AGUGGAAGGU UCCACUUGAA 50

UGUACAGACG ACUCGCCCCG A 70

151

## (2) INFORMATION FOR SEQ ID NO: 197:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 197:

GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

## (2) INFORMATION FOR SEQ ID NO: 198:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 198:

GGGAGGACGA UGCGGGUGGG AAGAUGAGCC GGUCGGCAGU AAUGUGACAC 50  
UGCGGCAGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO: 199:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 199:

GGGAGGACGA UGCGGGAGGG AAUGAGGAAA CAACUAGCAG AUAACCGAGC 50  
UGGCCAGACG ACUCGCCCCG A 70

## (2) INFORMATION FOR SEQ ID NO: 200:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 200:

GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44

## (2) INFORMATION FOR SEQ ID NO: 201:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid

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(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 201:  
GGGAGGACGA UGCGGUUGCU CUACAAUGAC GCGGUGACUC CGCAGUUCUU 50  
GGACACAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 202:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 202:  
GGGAGGACGA UGCGGGAGGG GAGAAGAAUG CAGGAAACAG CGAAAUGCGU 50  
GUGGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 203:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 203:  
GGGAGGACGA UGCGGGCGGG AAGAGCUAAU GGAAGUGGAA UCAGUCACAG 50  
UGCGGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 204:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 57 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 204:  
GGGAGGACGA UGCGGGCUUA GGGAAAUGGU UCUGAGGUGG UCAGACGACU 50  
CGCCCCGA 57

(2) INFORMATION FOR SEQ ID NO: 205:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear



- (1) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 205:  
 GGGAGGACGA UGCGGGAAGG GAACAGGAUA AGACAAGUCG AACAAAGCCG 50  
 AGGUGCAGAC GACUCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 206:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 44 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 206:  
 GGGAGGACGA UGCGGAUGGA GCUGAAAUCA GACGACUCGC CCGA 44
- (2) INFORMATION FOR SEQ ID NO: 207:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 207:  
 GGGAGGACGA UGCGGGGAGA CGUAGACGGG AACAUAGAAC GAACAUCAAC 50  
 GCGGCCAGAC GACUCGCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 208:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 69 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 208:  
 GGGAGGACGA UGCGGGAAGU GGAUAGAACA GUCAGAAAUG UAAGCGUGAG 50  
 GUGCAGACGA CUCGCCCGA 69
- (2) INFORMATION FOR SEQ ID NO: 209:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 71 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 209:  
GGSAGGACGA UGCGGGAAGG GUAGGAAGGU CAAGAGGAAA CAGCGCUUCG 50  
GGGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 210:  
(1) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 210:  
GGGAGGACGA UGCGGGGCAA AGGAAGUUGG AAUCGGGACU AAGUAGUGUG 50  
UGGCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 211:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 211:  
GGGAGGACGA UGCGGAGAAC CAACAGAGCC CCCUGGUGGU GGGGGAAGGA 50  
UUCUCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 212:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 212:  
GGGAGGACGA UGCGGACACA CAAGUGAAGG UCAGACGCGA AUUACGUGGG 50  
UGGGCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 213:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 82 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 213:  
GGGAGGACGA UGCGGUCGUG GGGUGGGUGG GGGCAGCGUU GGAAUAAGUA 50

ACUGGUAACG GCUGGCCAGA CGACUCGCCC GA

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## (2) INFORMATION FOR SEQ ID NO: 214:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 214:

GGGAGGACGA UGCGGGGUGG GUGGUUACCU GUAAUUUAU UGAUUCUGGC 50  
UUUAGCAGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO: 215:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 53 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 215:

GGGAGGACGA UGCGGCCCCU UAGCUCAGUG GUUAGAGCAG ACGACUCGCC 50  
CGA 53

## (2) INFORMATION FOR SEQ ID NO: 216:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 74 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 216:

GGGAGGACGA UGCGGUAACG UGGAAUAGGG UUAACAGCU GGAAAUAAACG 50  
UAGGUGGCCA GACGACUCGC CCGA 74

## (2) INFORMATION FOR SEQ ID NO: 217:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 217:

GGGAGGACGA UGCGGGUAGG GAGUAGGACA GACAUACAG UGCAACCAUC 50  
GUGGCCAGAC GACUCGCCCCG A 71

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## (2) INFORMATION FOR SEQ ID NO: 218:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 73 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 218:

GGGAGGACGA UGCGGAAACG GCGUGGCAAA AGUGAGGGGG UAGGAUGUAC 50  
CAUGGGUCAG ACGACUCGCC CGA 73

## (2) INFORMATION FOR SEQ ID NO: 219:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 219:

GGGAGGACGA UGCGGGAGGG GAAAUGAGA CCGACAGAUU GACGGAAGUA 50  
CUGGGCAGAC GACUCGCCCC A 71

## (2) INFORMATION FOR SEQ ID NO: 220:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 220:

GGGAGGACGA UGCGGGCAUU CGUCAUACC UUGUUUUUUU CCUUUUCUAG 50  
CGGCCCAGAC GACUCGCCCC A 71

## (2) INFORMATION FOR SEQ ID NO: 221:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 221:

GGGAGGACGA UGCGGAUCGU AAUCGCCACU ACUACUUUCC GAACCCGCAC 50  
GUGGCCAGAC GACUCGCCCC A 71

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## (2) INFORMATION FOR SEQ ID NO: 222:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 222:

GGGAGGACGA UGCGGCGUCC CGAGUCACGC UGUCCUGAUA ACCUUCUCUG 50  
UGCCCAGACG ACUCGCCCCG 70

## (2) INFORMATION FOR SEQ ID NO: 223:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 223:

GGGAGGACGA UGCGGGAUCC UUUGUGGGCU CUUGUUGACC CCCUCGUUGU 50  
CCCCCCCAGA CGACUCGCCC GA 72

## (2) INFORMATION FOR SEQ ID NO: 224:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 224:

GGGAGGACGA UGCGGCGGGU ACUCUUCGCC AGCUCCUCCA AGCGCGACCU 50  
GUGCCCAGAC GACUCGCCCC A 71

## (2) INFORMATION FOR SEQ ID NO: 225:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 225:

GGGAGGACGA UGCGGUUUCG AAUAGGGCCA UUUCUCACUA GCUAUCCUAC 50

CCUCCGACGA CGATUCGCCC GA

72

## (2) INFORMATION FOR SEQ ID NO: 226:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 226:

GGGAGGACGA UGCGGAUAAU GGCUGAAGAU AGCUCGCAUC UUGGUGUCCG 50  
GUGCCGACGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO: 227:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 227:

GGGAGGACGA UGCGGGACCA GAUGGCGGAU UUUUCAGCAA UCCUCCCCCG 50  
CUGCCCAGAC GACUCGCCCCG A 71

## (2) INFORMATION FOR SEQ ID NO: 228:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 70 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 228:

GGGAGGACGA UGCGGUGAUG GCGACCAGUC AAACCGGUGC UUUUACUCCC 50  
CCGCCAGACG ACUCGCCCCG A 70

## (2) INFORMATION FOR SEQ ID NO: 229:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 72 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

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- xi) SEQUENCE DESCRIPTION: SEQ ID NO: 229:  
GGGAGGACGA UGCGSSAAUU AACAGGGCCA GAAUUCUUAU CUNUCUCCCC 50  
GUGACCCAGA CGACUCGCCC GA 72
- (2) INFORMATION FOR SEQ ID NO: 230:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 230:  
GGGAGGACGA UGCGGCACCU UAGACCUGUC CUCCAAGCGU GAGUUGCUGU 50  
GGCCCAGACG ACUCGCCCCA 70
- (2) INFORMATION FOR SEQ ID NO: 231:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 231:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUUAUCU 50  
GGGCCAGACG ACUCGCCCCA 70
- (2) INFORMATION FOR SEQ ID NO: 232:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 232:  
GGGAGGACGA UGCGGUCAUG GUGUCUUUCC ACAGCUCUUC CCAUGAUCGC 50  
CCGCCAGAC GACUCGCCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 233:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:

160

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 233:

GGGAGGACGA UGCGGGAUU CCCAGCGCUU GACUGAUACA AACNUUCCCG 50  
UGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO:234:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 234:

GGGAGGACGA UGCGGCAANN NNNNCUCUC UCCUGGCGUU CCGCAACCCG 50  
CCCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 235:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 235:

GGGAGGACGA UGCGGAGUAU UCCAGCCUGG AUUCAUAGUC AGUGCUCUCC 50  
GUGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 236:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 236:

GGGAGGACGA UGCGGUCCUA GCAGCGAUUC AUCCCCGUUC UCUCAGCGUU 50  
CCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 237:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear



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(ii) MOLECULAR TYPE RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 237:

GGGAGGACGA UGCGGCCUGA AGUACAGGCU CUAACUCCA AGCGCGACCG 50  
UCCGCCAGAC GACUGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 238:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 68 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 238:

GGGAGGACGA UGCGGCCCUA CCACUUUUC CCUCUACUGU UAUCUGUCC 50  
CCCAGACGAC UGCCCCGA 68

(2) INFORMATION FOR SEQ ID NO: 239:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 239:

GGGAGGACGA UGCGGUGGUC UCCUAGAUU UACAGCACUU CCAUCGCAUU 50  
GGGCCAGACG ACUGCCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 240:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 69 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 240:

GGGAGGACGA UGCGGUCAAG CUUACAGUC UGGCAAUGGC CAUUAUGGCG 50  
CCCCAGACGA CUCGCCCGA 69

(2) INFORMATION FOR SEQ ID NO: 241:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 72 base pairs

(B) TYPE: nucleic acid

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(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 241:  
GGGAGGACGA UGCGGCAGUC UGGAUCUCUA UUGGAAUUUA GUCCUCAACU 50  
GUGCCCCAGA CGACUCGCCC GA 72

(2) INFORMATION FOR SEQ ID NO: 242:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 242:  
GGGAGGACGA UGCGGGAUUC UUUCGGCAAG UGAAAAUAU CCUUGCUUCC 50  
CGAGCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 243:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 243:  
GGGAGGACGA UGCGGGGACU UCAACUAAGU CCUCAUUUGC CUCGCUCUC 50  
GUGCCCAGAC GACUCGCCCC A 71

(2) INFORMATION FOR SEQ ID NO: 244:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 74 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 244:  
GGGAGGACGA UGCGGAACGG AGAUGUCCCC UCAAMAUUUA CCGUCUCCGU 50  
UUGCGCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 245:  
(i) SEQUENCE CHARACTERIZATION:

103

(A) LENGTH: 70 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 245:  
GGGAGGACGA UGCGGCGAAA UUAGCUUCU AUGACUCACG UUUCCUUGCC 50  
GCCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 246:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 246:  
GGGAGGACGA UGCGGGCCCG AUCUACUGCA UUACCGAAAC GAUUUCCCCA 50  
CUGUGCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 247:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 247:  
GGGAGGACGA UGCGGNGACU GAUUUUUCCU UGNCAGUGUA AUUUCUGGC 50  
UGCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 248:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 71 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 248:  
GGGAGGACGA UGCGGGGACU UUGACAGGCA UUGAUUUGCA CCUGUCCCC 50  
GUGGCCAGAC GACUCGCCCG A 71

164

- (1) INFORMATION FOR SEQ ID NO: 249:
- (i) SEQUENCE CHARACTERIZATION:
    - (A) LENGTH: 71 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 249:  
GGGAGGACGA UGCGGCGACA CAUAGCCUU UGAUCCCAUG AUGGCUCGCC 50  
GUGCCCAGAC GACUCGCCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 250:
- (i) SEQUENCE CHARACTERIZATION:
    - (A) LENGTH: 71 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 250:  
GGGAGGACGA UGCGGUGUAG UUUCCUGUA UGCCAUUCUU UCCCAUGCCG 50  
CACGCCAGAC GACUCGCCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 251:
- (i) SEQUENCE CHARACTERIZATION:
    - (A) LENGTH: 71 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 251:  
GGGAGGACGA UGCGGUCGAG UGUUCUCCUU CGGUAACUUAU UNNNNAUUUC 50  
GUGCCCAGAC GACUCGCCCCG A 71
- (2) INFORMATION FOR SEQ ID NO: 252:
- (i) SEQUENCE CHARACTERIZATION:
    - (A) LENGTH: 71 base pairs
    - (B) TYPE: nucleic acid
    - (C) STRANDEDNESS: single
    - (D) TOPOLOGY: linear
  - (ii) MOLECULAR TYPE: RNA
  - (ix) FEATURE:
    - (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified
  - (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 252:  
GGGAGGACGA UGCGGGUCGU AUUCAUCC UGUUCUGUU UCGUUGCACC 50

165

UGGGCCAGAC GACUCGCCCC A

71

## (2) INFORMATION FOR SEQ ID NO: 253:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 253:

GGGAGGACGA UGCGGGGACU UUGACAGGCA UGAUUUCGA CGUGUCCCC

50

GUGGCCAGAC GACUCGCCCC A

71

## (2) INFORMATION FOR SEQ ID NO: 254:

## (1) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 69 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 254:

GGGAGGACGA UGCGGUGAUC AAUCGGCGCU UUACUCUUGC GCUCACCGUG

50

CCCCAGACGA CUCGCCCGA

69

## (2) INFORMATION FOR SEQ ID NO: 255:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

## (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 255:

GGGAGGACGA UGCGGCAGUC UCCCUAGGUU UCAUCUCUGC AGCAUCCGG

50

GGUNCCAGAC GACUCGCCCC A

71

## (2) INFORMATION FOR SEQ ID NO: 256:

## (i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 71 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

## (ii) MOLECULAR TYPE: RNA

## (ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 256:

GGGAGGACGA UGCGGAUCAA AAGCACUCAU UCCCGUGCUC GCUUCAUUGG 50  
UCCCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 257:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 74 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 257:

GGGAGGACGA UGCGGAAGAU CUCCCAACUG CUGUGGCUAA UAAUUCUCUC 50  
CGCGUCCCCA GACGACUCGC CCGA 74

(2) INFORMATION FOR SEQ ID NO: 258:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 70 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 258:

GGGAGGACGA UGCGGUCCGU CAUAAACGCC AUAACUGCG AAUACUCCCU 50  
GGCCCAGACG ACUCGCCCGA 70

(2) INFORMATION FOR SEQ ID NO: 259:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F)  
modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 259:

GGGAGGACGA UGCGGGGACA AWYAGCGGUG UCUUUUCAUU UNKAUCCUCC 50  
GACRUCCCAG ACGACUGGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 260:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

167

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 260:

GGGAGGACGA UGCGGUGACU AUCUGGCUCG AUCCAAUCAC CCGAGCCCAC 50  
 CCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 261:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 71 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 261:

GGGAGGACGA UGCGGGAACU AAUGGCCGUG AUUAACCAU GCAGGCUUCC 50  
 UCGCCAGAC GACUCGCCCG A 71

(2) INFORMATION FOR SEQ ID NO: 262:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 73 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 262:

GGGAGGACGA UGCGGUGACA UGGAUUUUC UACGGGCCCG AUCCUGCCAG 50  
 CCGUGUGCAG ACGACUGCC CGA 73

(2) INFORMATION FOR SEQ ID NO: 263:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 13 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 263:

GGAANYAANR CRR 13

(2) INFORMATION FOR SEQ ID NO: 264:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 9 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

168

(1) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 264:

GGAAATTGA

9

(2) INFORMATION FOR SEQ ID NO: 265:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 76 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-NH<sub>2</sub>, 2 cytosine

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub>, 2 uracil

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 265:

GGGAGACAAG AAUAACGCUC AAGUAGACUA AUGUGUGGAA GACAGCGGGU

50

GGUUCGACAG GAGGCUCACA ACAGGC

76

(2) INFORMATION FOR SEQ ID NO: 266:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 26 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All C's are 2'-NH<sub>2</sub>, 2 cytosine

(ix) FEATURE:

(D) OTHER INFORMATION: All U's are 2'-NH<sub>2</sub>, 2 uracil

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 266:

GGUGUGUGGA AGACAGCGGG UGUUC

26

(2) INFORMATION FOR SEQ ID NO: 267:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 35 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All U's and C's are 2'-deoxy-2'-aminouridine and 2'-deoxy-2'-aminocytidine residues

(ix) FEATURE:

(D) OTHER INFORMATION: A at positions 14 and 17 is 2'-deoxy-2'-O-methyladenosine

(ix) FEATURE:

(D) OTHER INFORMATION: G at positions 5, 6, 22, 23, 24, 26 and 27 is 2'-deoxy-2'-O-methylguanosine

(ix) FEATURE:



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(2) OTHER INFORMATION T at positions 1-4 and 31-35 is 2'-deoxythymidine

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 267:  
TTTTTGGUG UGGAAGACAG CCGGUGGUUC TTTT

35

(2) INFORMATION FOR SEQ ID NO: 268:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 27 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 268:  
GGGAGSGSG GUYUCYRRY UYYYSYS

27

(2) INFORMATION FOR SEQ ID NO: 269:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 26 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 269:  
RGGPRGRAYY RSBSYYYYY BSYBSY

26

(2) INFORMATION FOR SEQ ID NO: 270:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 21 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 270:  
GGGAAGGAAY AARCRRGACC C

21

(2) INFORMATION FOR SEQ ID NO: 271:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 11 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-NH<sub>2</sub> modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 271:  
GGAAYGAYGA Y

11

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- (1) INFORMATION FOR SEQ ID NO: 272:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 49 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 272:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUAUC 49
- (2) INFORMATION FOR SEQ ID NO: 273:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 47 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 273:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUUUCUC CAUCGUA 47
- (2) INFORMATION FOR SEQ ID NO: 274:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 274:  
GGGAGGACUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUA 45
- (2) INFORMATION FOR SEQ ID NO: 275:  
(i) SEQUENCE CHARACTERIZATION:  
    (A) LENGTH: 45 base pairs  
    (B) TYPE: nucleic acid  
    (C) STRANDEDNESS: single  
    (D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
    (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 275:  
GGGAGGACGA UGCGGUGGUC UCCCCUAAAC UUUCUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 276:  
(i) SEQUENCE CHARACTERIZATION:

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- (A) LENGTH: 45 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 276:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUUCUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 277:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 45 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 277:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AAACUCCAUC GUAUC 45
- (2) INFORMATION FOR SEQ ID NO: 278:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 42 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 278:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUAU CUCCAUCGUA UC 42
- (2) INFORMATION FOR SEQ ID NO: 279:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 47 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 279:  
GAGGACGAUG CGGUGGUCUC CCAAUUCUAA ACUUUCUCCA UCGUAUC 47
- (2) INFORMATION FOR SEQ ID NO: 280:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 42 base pairs  
(B) TYPE: nucleic acid

172

- (C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 280:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUUU CUCCAUCGUA UC 42
- (2) INFORMATION FOR SEQ ID NO: 281:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 41 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 281:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACCAUCGUAU C 41
- (2) INFORMATION FOR SEQ ID NO: 282:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 44 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 282:  
GGAGGACGAU GCGGUGGUCU CCCAAUUCUA UUCUCCAUCG UAUC 44
- (2) INFORMATION FOR SEQ ID NO: 283:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 43 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 283:  
GGAGGACGAU GCGGUGGUCU CCAAUUCUAU UCUCCAUCGU AUC 43
- (2) INFORMATION FOR SEQ ID NO: 284:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 43 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear

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(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 284:

GAGGACGAUG CGGUGGUCUC CCAAUUCUAU UCUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 285:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 41 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 285:

GAGGACGAUG CGGUGGUCUC AAUUCUAUUC UC CAUCGU AU C

41

(2) INFORMATION FOR SEQ ID NO: 286:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 286:

GGGAGGCGAU GCGGUGGUCU CCAAUUCUA UUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 287:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 44 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 287:

GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 288:

(i) SEQUENCE CHARACTERIZATION:

(A) LENGTH: 43 base pairs

(B) TYPE: nucleic acid

(C) STRANDEDNESS: single

(D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

174

D. OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 288:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU ACUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 289:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 42 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 289:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU AUCCAUCGUA UC

42

(2) INFORMATION FOR SEQ ID NO: 290:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 44 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 290:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UUCUCCAUCG UAUC

44

(2) INFORMATION FOR SEQ ID NO: 291:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 43 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 291:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC

43

(2) INFORMATION FOR SEQ ID NO: 292:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 41 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

175

(1) SEQUENCE DESCRIPTION: SEQ ID NO: 292:  
GGGGAGTAUG CGGUGGCCCC AAUUCUAUUC UCCAUCGUUU C

41

(2) INFORMATION FOR SEQ ID NO: 293:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 39 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 293:  
GGGACGAUGC GGUGGCCCAA UUCUAUUCUC CAUCGUUUC

39

(2) INFORMATION FOR SEQ ID NO: 294:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 37 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 294:  
GACGAUGCGG UGGCCCAAUU CUAUUCUCCA UCGUUAUC

37

(2) INFORMATION FOR SEQ ID NO: 295:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 38 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 295:  
GGACGAUGCG GUGGCCCAAU UCUAUUCUCC AUCGUUAUC

38

(2) INFORMATION FOR SEQ ID NO: 296:

(i) SEQUENCE CHARACTERIZATION:

- (A) LENGTH: 34 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULAR TYPE: RNA

(ix) FEATURE:

- (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F) modified

(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 296:  
GAUGCGGUGG CCCAAUUCUA UUCUCCAUCG UAUC

34

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- (2) INFORMATION FOR SEQ ID NO: 297:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 37 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
 modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 297:  
GAUGCGGUGG UCUCCAAUU CUAUUCUCCA UCGUAUC 37
- (2) INFORMATION FOR SEQ ID NO: 298:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 32 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
 modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 298:  
GGUGGUCUCC CAAUUCUAUU CUCCAUCGUA UC 32
- (2) INFORMATION FOR SEQ ID NO: 299:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 12 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
 modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 299:  
GGGAGGACGA UG 12
- (2) INFORMATION FOR SEQ ID NO: 300:  
 (i) SEQUENCE CHARACTERIZATION:  
 (A) LENGTH: 42 base pairs  
 (B) TYPE: nucleic acid  
 (C) STRANDEDNESS: single  
 (D) TOPOLOGY: linear  
 (ii) MOLECULAR TYPE: RNA  
 (ix) FEATURE:  
 (D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
 modified  
 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 300:  
GGGAGGACGA UGCGGUGGUC UCCCAAUUCU CUCCAUCGUA UC 42
- (2) INFORMATION FOR SEQ ID NO: 301:  
 (i) SEQUENCE CHARACTERIZATION:



177

(A) LENGTH: 41 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 301:  
GGGAGGACGA UGCGGUGUCU CCCAAUUCUU CUCAUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 302:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 41 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 302:  
GGGAGGACGA UGCGGGGUCU CCCAAUUCUU CUCCUCGUAU C 41

(2) INFORMATION FOR SEQ ID NO: 303:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 39 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 303:  
GGGAGGACGA UGCGGGUCUC CCAAUUCUUC UCUCGUUAUC 39

(2) INFORMATION FOR SEQ ID NO: 304:  
(i) SEQUENCE CHARACTERIZATION:  
(A) LENGTH: 43 base pairs  
(B) TYPE: nucleic acid  
(C) STRANDEDNESS: single  
(D) TOPOLOGY: linear  
(ii) MOLECULAR TYPE: RNA  
(ix) FEATURE:  
(D) OTHER INFORMATION: All pyrimidines are 2'-fluoro (2'-F)  
modified  
(xi) SEQUENCE DESCRIPTION: SEQ ID NO: 304:  
GGGAGUACGA UGCGGUGGUC UCCCAAUUCU UCUCCAUCGU AUC 43